



“Financial Analysis of Public & Private sector banks: Bankometer Model”

Dr. Mansi Mathur

Professor

Poornima University

Abstract

The Bankometer model has been developed by International Monetary Fund to identify financial soundness of banks. The Model helps to find the solvency scores of the banks to avoid insolvency issues and to measure the financial position by taking into account the contribution of each ratio in the model according to the IMF (2000) norms. The present study attempts to make comparison between top 5 public & private sector banks (Market Capitalization) on the basis of Bankometer model from a time period of 2010 -2020. The top 5 public sector banks undertaken for study are SBI, IDBI , PNB , UBI & BOB & The top 5 private sector banks undertaken for study were HDFC , Kotak Mahindra bank , ICICI , Axis & Bandhan bank. For all the banks solvency score (S) has been calculated. It was concluded from the study that the S-score of private banks is more than public banks, which implies that the financial position of private sector banks is better than public sector banks. Among the public sector banks SBI bank is the most solvent bank & Bank of Baroda held the last position , whereas among the private sector banks HDFC bank is the most solvent bank & Bandhan bank is ranked last .

Key Words: Bankometer model, public sector banks , public sector banks

Introduction

Banking Sector is the backbone of Indian economy. To ensure financial stability in the economy the bank's solvency needs to be measured. Ability of a bank to meet its long-term debts and financial obligations is termed as solvency. It is an important measure of financial health, since its one way of demonstrating a bank's ability to manage its operations into the foreseeable future.

The present study has used Bankometer model to measure the Solvency scores of banks. The Bankometer model has been developed by International Monetary Fund to identify financial soundness of banks. The model helps the bank's internal management to determine insolvency issues and eradicate the shortcomings pointed out by the model.

Objectives of the study

- 1) To assess the solvency score of top 5 Indian public sector banks using Bankometer model.
- 2) To assess the solvency score of top 5 Indian private sector banks using Bankometer model.
- 3) To compare the public & private sector banks on basis of their solvency scores.

Research Methodology

The present study is based on secondary data. The data has been obtained from Annual reports of banks . The study aims at calculating solvency ratio using Bankometer model of top 5 public & private sector banks for a time period 2000-2010. The top 5 public & private sector were selected on the basis market capitalization values as on 31st March, 20.

Public Sector Banks

| Banks | Market Capitalization (in cr)(31 st March,20) |
|-------|--|
| SBI | 176,707.31 |
| idbi | 39,186.74 |
| PNB | 31,431.50 |
| UBI | 22,989.94 |
| BOB | 21,092.89 |

Private sector banks

| Banks | Market Capitalization (in cr))(31 st March,20) |
|---------|--|
| HDFC | 592,191.50 |
| KMB | 262,967.45 |
| ICICI | 253,594.72 |
| AXIS | 135,243.15 |
| Bandhan | 49,389.28 |

Bankometer Techniques was developed by IMF in 2002, and also accepted worldwide. The following formula has been suggested by IMF for calculation:-

$$\text{S-Score} = 1.5(\text{CA}) + 1.2(\text{EA}) + 3.5(\text{CAR}) + 0.6(\text{NPL}) + 0.3(\text{CI}) + 0.4(\text{LA})$$

'S' stands for solvency score.

| S-Solvency score | Financial Position |
|--------------------|--------------------|
| value of S <50 | Insolvent |
| value of S 50<S<70 | Grey Area |
| value is S>70 | Financial Sound |

Bankometer parameters and IMF limits

CA = Capital to Asset Ratio ($\text{CA} \geq 04$ percentage)

EA = Equity to Asset Ratio ($\text{EA} \geq 02$ percentage)

CAR = Capital Adequacy Ratio ($40\text{percentage} \leq \text{CAR} \leq 08$ percentage)

NPL = Non Performing Loan Ratio ($\text{NPL} \leq 15$ percentage)

CI = Cost to Income Ratio ($\text{CI} \leq 40$ percentage)

LA = Loans to Asset Ratio ($\text{LA} \leq 65$ percentage)

Data Interpretation

A) Public sector Banks

Table 1: Capital to Assets Ratio

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| SBI | 6.120 | 5.311 | 6.290 | 6.313 | 6.60 | 6.271 | 6.120 | 6.958 | 6.343 | 6.002 | 5.872 |
| idbi | 3.552 | 5.749 | 6.692 | 6.579 | 7.185 | 6.830 | 7.404 | 6.237 | 6.055 | 11.743 | 11.344 |
| PNB | 5.975 | 5.685 | 6.071 | 6.824 | 6.521 | 6.477 | 5.740 | 5.809 | 5.363 | 5.779 | 7.517 |
| UBI | NA | 5.409 | 5.581 | 5.546 | 5.222 | 5.178 | 5.656 | 5.177 | 5.149 | 5.361 | 6.135 |
| BOB | NA | 5.872 | 6.143 | 5.843 | 5.457 | 5.572 | 5.988 | 5.800 | 6.027 | 5.882 | 6.206 |

Table 1 depicts Capital to Assets Ratio of top 5 public sector banks. The ratio signifies whether there is enough capital with the bank to cover its assets. It is useful to regulators, business managers and investors, as it sheds light on a bank's financial status. As per the Bankometer model the ratio should be more than or equal to 4%. For all the public sector banks the ratio is more 4%, indicating good financial status. The ratio has increased for all banks from 2010-2020, except for SBI bank, where the ratio has marginally declined.

Table 2: Cost to Income Ratio

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| SBI | 52.59 | 41.23 | 38.00 | 34.09 | 36.76 | 36.85 | 39.14 | 41.15 | 47.52 | 44.68 | 43.47 |
| IDBI | NA | 23.02 | 18.15 | 23.72 | 26.63 | 27.61 | 41.85 | 46.84 | 69.54 | 95.86 | 96.20 |
| PNB | 39.39 | 41.27 | 39.75 | 42.81 | 45.06 | 46.74 | 46.79 | 41.57 | 56.75 | 47.03 | 44.82 |
| UBI | 40.66 | 47.85 | 43.15 | 44.70 | 51.24 | 51.34 | 52.10 | 46.42 | 47.26 | 48.80 | 45.02 |
| BOB | 43.57 | 39.87 | 37.55 | 39.79 | 43.44 | 43.63 | 50.30 | 45.86 | 45.87 | 45.56 | 47.86 |

Table 2 depicts Cost to Income Ratio of top 5 public sector banks . The ratio indicates the profitability of banks. Lower the ratio, higher is the profitability of banks. The Ratio has increased for IDBI & Union Bank of India from 2010 to 2020 . The increasing ratio indicates declining profitability of these banks.

Table 3: Capital adequacy Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|
| SBI | 13.39 | 11.98 | 13.86 | 12.92 | 12.96 | 12.00 | 13.12 | 13.11 | 12.60 | 12.72 | 13.06 |
| IDBI | - | 14.00 | 15.00 | 13.00 | 12.00 | 12.00 | 12.00 | 11.00 | 10.00 | 12.00 | 13.00 |
| PNB | 14.16 | 12.42 | 12.63 | 12.72 | 12.29 | 12.21 | 11.28 | 11.66 | 9.20 | 9.73 | 14.14 |
| UBI | 12.51 | 12.95 | 11.85 | 11.45 | 11.89 II) | 10.74(B II) | 11.14(B II) | 12.91(B II) | 11.50 (B III) | 11.78 (B III) | 12.81 (B III) |
| BOB | 14.36(B II) | 14.52(B II) | 14.67(B II) | 13.30(B II) | 12.28(B III) | 12.60(B III) | 13.17(B III) | 12.24(B III) | 12.13 (B III) | 13.42(B III) | 13.30 (B III) |

Table 3 depicts Capital adequacy Ratio of top 5 public sector banks . The ratio indicates the financial position of banks, the banks with higher ratio are able to withstand a financial downturn or unforeseen losses . The ratio shows fluctuating trend for all banks , however they are able to maintain a ratio above 9% as per RBI norms , indicating better financial stability.

BII – Basel 2

BIII- Basel 3

Table 4: Equity to Asset Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SBI | 0.027 | 0.0519 | 0.0502 | 0.0437 | 0.0416 | 0.0365 | 0.0329 | 0.0294 | 0.0258 | 0.0242 | 0.022 |
| IDBI | - | 0.389 | 0.440 | 0.413 | 0.488 | 0.451 | 0.550 | 0.569 | 0.880 | 2.415 | 3.461 |
| PNB | 0.106 | 0.084 | 0.074 | 0.074 | 0.066 | 0.061 | 0.058 | 0.591 | 0.072 | 0.119 | 0.162 |
| UBI | - | 0.222 | 0.210 | 0.191 | 0.178 | 0.167 | 0.170 | 0.152 | 0.240 | 0.357 | 0.622 |
| BOB | - | 0.1096 | 0.0922 | 0.0772 | 0.0653 | 0.0620 | 0.0688 | 0.0665 | 0.0736 | 0.068 | 0.0799 |

Table 4 depicts Equity to Asset Ratio of top 5 public sector banks The ratio measures the amount of equity the business has when compared to the total assets owned by banks . The higher the percentage the less of a debt is used by the banks. The ratio has increased for all banks, thereby indicating that banks are using more of debts in their financial structure .

Table 5: NPLs to Loans Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| SBI | 3.091 | 3.345 | 4.573 | 4.901 | 5.092 | 4.363 | 6.707 | 7.151 | 11.547 | 7.903 | 6.412 |
| IDBI | - | 1.773 | 2.521 | 3.286 | 5.038 | 6.088 | 11.522 | 23.452 | 32.368 | 34.081 | 36.418 |
| PNB | 1.723 | 1.81 | 2.968 | 4.362 | 5.416 | 6.752 | 13.537 | 13.20 | 19.971 | 16.90 | 15.57 |
| UBI | - | 2.43 | 3.06 | 3.03 | 1.12 | 5.10 | 9.04 | 11.77 | 11.68 | 16.41 | 15.58 |
| BOB | - | 1.38 | 1.55 | 2.43 | 2.99 | 3.80 | 10.56 | 11.15 | 13.21 | 10.29 | 10.05 |

Table 5 depicts NPLs to Loans Ratio of top 5 public sector banks.. A high ratio means that the bank is at a greater risk of loss if it does not recover the owed loan amounts, whereas a small ratio means that the outstanding loans present a low risk to the bank. The ratio has increased for all the banks , indicating that banks are at greater risk & they are not able to recover the loans

Table 6: Loans to Assets Ratio

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SBI | 60.01 | 61.837 | 64.961 | 66.759 | 67.485 | 63.475 | 62.084 | 58.060 | 56.006 | 59.384 | 58.847 |
| IDBI | 59.664 | 62.469 | 62.601 | 61.154 | 60.402 | 58.802 | 58.545 | 53.550 | 49.742 | 46.815 | 43.301 |
| PNB | NA | 63.994 | 64.116 | 64.469 | 63.455 | 63.072 | 61.782 | 58.236 | 56.636 | 59.133 | 56.801 |
| UBI | NA | 63.981 | 67.839 | 66.729 | 64.759 | 66.993 | 66.063 | 63.279 | 59.244 | 60.103 | 57.211 |
| BOB | NA | 63.81 | 64.24 | 59.98 | 60.20 | 59.87 | 57.16 | 55.16 | 59.37 | 60.03 | 59.60 |

Table 6 depicts Loans to Assets Ratio of top 5 public sector banks. All the banks were able to reduce the ratio in the decade , thereby able to reduce liabilities . It is an indication of better financial stability.

Calculation of S-score

Public Sector Banks

| S-score | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|--------|--------|--------|----------------|----------------|------------------------|
| $S = 1.5 * CA + 1.2 * EA + 3.5 * CAR + 0.6 * NPL + 0.3 * CI + 0.4 * LA$ | | | | | | | | | | | | |
| 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Mean (S) score | S>70 (Solvent) | S=50 to 70 (Grey Area) |
| 89.07 | 98.15 | 94.61 | 96.39 | 90.51 | 95.74 | 96.22 | 97.23 | 95.44 | 94.97 | 94.83 | Solvent (SBI) | S<50(not solvent) |
| 91.05 | 95.06 | 89.41 | 88.55 | 88.24 | 96.66 | 98.09 | 105.33 | 130.45 | 134.70 | 101.75 | Solvent (IDBI) | |
| 91.17 | 92.75 | 96.09 | 95.03 | 95.83 | 95.04 | 93.92 | 91.99 | 90.77 | 106.47 | 94.91 | Solvent (PNB) | |
| 95.11 | 92.01 | 90.55 | 87.79 | 89.00 | 93.13 | 95.12 | 93.15 | 98.23 | 100.53 | 93.46 | Solvent (UBI) | |
| 98.07 | 98.56 | 92.79 | 90.15 | 91.85 | 99.45 | 94.13 | 97.02 | 99.73 | 100.19 | 96.19 | Solvent (BOB) | |

As per the model 'S' score greater than 70 percent are solvent and termed as super sound banks, while those banks having 'S' score below 50 percent are said to be not solvent. The area between 50 and 70 percent is defined as gray area because of the susceptibility to error classification. All the top 5 public banks have mean score (2011-2020) of more than 70, hence they solvent & can be termed as super sound.

IDBI bank (101.75%) has the highest mean S score , followed by Bank of Baroda (96.19%) & Punjab National Bank (94.91%) which implies that the banks are solvent and super sound in their financial strength. The least mean score is of Union Bank of India (93.46%) . All banks have S-score of more than 92%.

B) Private Sector Banks

Table 7 : Capital to Assets Ratio (Rs in cr)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|
| HDFC | - | 9.15 | 8.86 | 9.05 | 8.84 | 10.50 | 10.25 | 10.36 | 9.99 | 11.99 | 11.17 |
| KMB | - | 13.44 | 12.15 | 11.31 | 14.03 | 13.34 | 12.46 | 12.87 | 14.15 | 13.74 | 13.61 |
| ICICI | - | 13.56 | 12.75 | 12.43 | 12.31 | 12.45 | 12.45 | 12.95 | 11.96 | 11.24 | 10.61 |
| AXIS | - | 7.828 | 7.985 | 9.722 | 9.973 | 9.671 | 10.117 | 9.271 | 9.178 | 8.324 | 9.28 |
| Bandhan | - | - | - | - | - | - | 16.88 | 14.71 | 21.17 | 19.85 | 16.57 |

Table 7 depicts the Capital to Assets ratio of top 5 private sector banks . The ratio has increased for all banks , thereby indicating that they have enough capital to cover their assets

Table 8: Cost to Income Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HDFC | - | 45.13 | 38.03 | 38.02 | 36.53 | 36.84 | 36.69 | 37.84 | 39.62 | 38.41 | 38.52 |
| KMB | - | 54 | 53 | 51 | 50 | 52 | 58 | 48 | 47 | 47 | 47 |
| ICICI | - | 32.22 | 28.67 | 28.67 | 31.30 | 32.70 | 39.40 | 42.68 | 46.51 | 48.98 | 45.79 |
| AXIS | | 39.45 | 33.54 | 32.72 | 34.53 | 34.74 | 35.70 | 46.42 | 51.64 | 44.28 | 50.03 |
| Bandhan | - | - | - | - | - | - | 58.97 | 36.31 | 35.00 | 32.58 | 30.82 |

Table 8 depicts the Cost to Income ratio of top 5 private sector banks .The ratio has increased for all banks except Axis bank , indicating lower profitability , due to increase in cost .

Table 9 : Capital adequacy Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|----------------|---------------|----------------|----------------|-------|-------|-------|-------|-------|-------|
| HDFC | - | 16.2 | 16.5 | 16.8 | 16.1 | 16.8 | 15.5 | 14.6 | 14.8 | 17.1 | 18.5 |
| KMB | - | 19.9 | 17.5 | 16 | 18.8 | 17.2 | 16.3 | 16.8 | 18.2 | 17.5 | 17.9 |
| ICICI | - | 19.5 (B II) | 18.5(B II) | 18.7(B II) | 17.7(BIII) | 17.02 | 16.64 | 17.39 | 18.42 | 16.89 | 16.11 |
| AXIS | - | 12.65 | 13.66 | 17.00 | 16.07 | 15.09 | 15.29 | 14.95 | 16.57 | 15.84 | 17.53 |
| Bandhan | - | - | - | - | - | - | 29.01 | 26.36 | 31.48 | 29.20 | 27.43 |

Table 9 indicates the Capital Adequacy ratio of top 5 private sector banks The ratio has increased for HDFC & Axis bank only .Indicating better financial position in comparison to other banks . However all the banks are able to maintain a ratio above 9%.

Table 10 : Equity to Asset Ratio (%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HDFC | - | 0.168 | 0.139 | 0.119 | 0.098 | 0.085 | 0.071 | 0.059 | 0.049 | 0.044 | 0.036 |
| KMB | - | 0.725 | 0.564 | 0.446 | 0.440 | 0.364 | 0.477 | 0.429 | 0.360 | 0.306 | 0.266 |
| ICICI | - | 0.284 | 0.243 | 0.215 | 0.194 | 0.180 | 0.161 | 0.151 | 0.146 | 0.134 | 0.117 |
| AXIS | - | 0.169 | 0.145 | 0.137 | 0.123 | 1.103 | 0.091 | 0.080 | 0.074 | 0.064 | 0.062 |
| Bandhan | - | - | - | - | - | - | 5.543 | 3.622 | 2.692 | 2.114 | 1.756 |

Table 10 indicates the Equity to Assets ratio of top 5 private sector banks The ratio has declined for all the banks , thereby indicating use of more debt in the capital structure of the bank. Hence banks are relying more on debt for financing.

Table 11 :NPLs to Loans Ratio(%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| HDFC | - | 1.059 | 1.023 | 0.974 | 0.987 | 0.941 | 0.946 | 1.061 | 1.307 | 1.370 | 1.273 |
| KMB | - | 2.057 | 1.572 | 1.564 | 1.998 | 1.870 | 2.392 | 2.630 | 2.254 | 2.172 | 2.288 |
| ICICI | - | 4.638 | 3.734 | 3.310 | 3.102 | 3.90 | 6.024 | 9.082 | 10.390 | 7.790 | 6.327 |
| AXIS | - | 1.123 | 1.064 | 1.215 | 1.368 | 1.462 | 1.797 | 5.704 | 7.790 | 6.020 | 5.291 |
| Bandhan | - | - | - | - | - | - | 0.151 | 0.512 | 1.256 | 2.067 | 1.490 |

Table 11 depicts the NPL to loans ratio of top 5 private sector banks .The ratio has increased for all the banks thereby indicating less recovery of loans . More & more loans are converting into bad debts.

Table 12 :Loans to Assets Ratio(%)

| Banks | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------|------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| HDFC | - | 57.68 | 57.83 | 59.88 | 61.64 | 61.90 | 64.54 | 64.20 | 61.88 | 65.84 | 64.93 |
| KMB | - | 57.68 | 59.51 | 57.91 | 60.54 | 62.41 | 61.72 | 63.42 | 64.06 | 65.892 | 61.00 |
| ICICI | - | 53.26 | 53.57 | 54.07 | 56.96 | 59.98 | 60.40 | 60.15 | 58.28 | 60.83 | 58.75 |
| AXIS | - | 58.67 | 59.43 | 57.84 | 60.03 | 60.85 | 64.47 | 62.027 | 63.60 | 61.77 | 62.44 |
| Bandhan | - | - | - | - | - | - | 62.95 | 55.69 | 67.06 | 70.24 | 72.65 |

Table 12 depicts the Loans to Assets ratio of top 5 private sector banks .The ratio has decreased for all banks except Axis & Bandhan bank, indicating greater proportion of use loan/debt component for financing assets

Calculation of S-score.

Private Banks

| S-score | | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|---|
| $S = 1.5*CA + 1.2*EA + 3.5*CAR + 0.6*NPL + 0.3*CI + 0.4*LA$ | | | | | | | | | | | |
| 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | Mean (S) score | S>70 (Solvent) S=50 to 70 (Grey Area) S<50(not solvent) |
| 107.88 | 106.36 | 108.46 | 105.94 | 111.03 | 107.10 | 104.38 | 104.27 | 116.56 | 119.84 | 109.18 | S(HDFC) |
| 131.19 | 120.79 | 112.91 | 127.79 | 122.33 | 119.83 | 120 | 126.43 | 124 | 123.26 | 122.85 | S (Kmb) |
| 122.69 | 116.43 | 116.57 | 114.68 | 114.53 | 116.70 | 122.78 | 126.09 | 119.84 | 113.55 | 118.39 | S(ICICI) |
| 92.20 | 94.45 | 107.93 | 106.54 | 104.28 | 106.38 | 108.48 | 117.47 | 109.60 | 118.51 | 106.58 | S (Axis) |
| - | - | - | - | - | 176.45 | 152.14 | 183.24 | 173.62 | 162.17 | 169.52 | S(Bandhan) |

***The first Annual report of Bandhan bank came in 2015-16.**

Conclusion

As per the parameters of bankometer model, all the top 5 private sector banks have mean percentage score (2011-2020) of more than 70 , hence they solvent & can be termed as super sound.

Bandhan bank (169.52%) has the highest mean S score though the data through annual reports is available from 2016 only. It is followed by Kotak Mahindra bank (122.85%) & ICICI Bank (118.39%) which implies that the banks are solvent and super sound in their financial strength. The least mean score is of Axis bank (106.58%). All banks have S-score of more than 100%.

The S-score of private banks is more than public banks , which implies that the financial position of private sector banks is better than public sector banks.

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